

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Previously Presented) A wireless communication system comprising:
a network;
a base station coupled to the network; and
a mobile station coupled to the base station via a wireless communication link;
wherein the network is configured to direct the mobile station to enter or leave soft handoff; and
wherein the mobile station is configured to modify a transmission parameter in response to the network directing the mobile station to enter or leave soft handoff, wherein the transmission parameter comprises a frame size, wherein if the mobile station is directed to enter soft handoff, the frame size is set to a first size and wherein if the mobile station is directed to leave soft handoff, the frame size is set to a second size.
2. (Canceled)
3. (Previously Presented) A wireless communication system as recited in claim 1, wherein the first size is greater than the second size.
4. (Previously Presented) A wireless communication system comprising:
a network;
a base station coupled to the network; and
a mobile station coupled to the base station via a wireless communication link;
wherein the network is configured to direct the mobile station to enter or leave soft handoff; and
wherein the mobile station is configured to modify a transmission parameter in response to the network directing the mobile station to enter or leave soft handoff, wherein the

transmission parameter comprises a frame size, wherein if the mobile station is directed to enter soft handoff, the frame size is set to a first size and wherein if the mobile station is directed to leave soft handoff, the frame size is set to a second size, wherein the first size is greater than the second size, and wherein the first size is 10 ms and the second size is 2 ms.

5. (Previously Presented) A wireless communication system as recited in claim 1, wherein the mobile station is configured to measure a pilot signal strength for each of one or more base stations, wherein the one or more base stations include the base station coupled to the mobile station, and to periodically transmit one or more pilot strength measurement messages to the network.

6. (Original) A wireless communication system as recited in claim 5, wherein the network is configured to identify a change in a number of base stations in an active set for the mobile station based on the pilot strength measurement messages and to direct the mobile station to enter or leave soft handoff based on the change in the number of base stations in the active set.

7. (Previously Presented) A wireless communication system as recited in claim 1, wherein the network is configured to direct the mobile station to enter or leave soft handoff by sending a handoff direction message (HDM) to the mobile station.

8. (Original) A wireless communication system as recited in claim 7, wherein the mobile station is configured to modify the transmission parameter in response to receiving the HDM from the network.

9. (Original) A wireless communication system as recited in claim 8, wherein the mobile station is configured to transmit a handoff completion message to the network after receiving the HDM.

10. (Previously Presented) A mobile station configured to operate in a wireless communication system, comprising:

a processing subsystem configured to set a transmission parameter comprising a frame size in response to detecting that the mobile station is entering or leaving soft handoff; and
a transceiver subsystem configured to transmit data on reverse link in accordance with the frame size.

11. (Original) A mobile station as recited in claim 10, wherein the processing subsystem is configured to detect that the mobile station is entering or leaving soft handoff based upon a received handoff direction message (HDM).

12. (Previously Presented) A mobile station as recited in claim 11, wherein the processing subsystem is configured to set the frame size to a first value if the HDM directs the mobile station to enter soft handoff, and to set the frame size to a second value if the HDM directs the mobile station to leave soft handoff.

13. (Canceled)

14. (Previously Presented) A mobile station as recited in claim 12, wherein the first value is greater than the second value.

15. (Previously Presented) A mobile station configured to operate in a wireless communication system comprising:
a processing subsystem; and
a transceiver subsystem;
wherein the processing subsystem is configured to set a transmission parameter for the transceiver subsystem in response to detecting that the mobile station is entering or leaving soft handoff, to detect that the mobile station is entering or leaving soft handoff based upon a received handoff direction message (HDM), to set the transmission parameter to a first value if the HDM directs the mobile station to enter soft handoff, and to set the transmission parameter to a second value if the HDM directs the mobile station to leave soft handoff, wherein the transmission parameter comprises a frame size, and wherein the first value is greater than the second value.

16. (Previously Presented) A mobile station as recited in claim 10, wherein the transceiver subsystem is configured measure a pilot signal strength for each of one or more base stations and to periodically transmit one or more pilot strength measurement messages to a network connected to the base stations.

17. (Previously Presented) A mobile station as recited in claim 11, wherein the processing subsystem is configured to send a handoff completion message after receiving the HDM.

18. (Previously Presented) A method implemented in a wireless communication system, comprising:

detecting a mobile station entering or leaving soft handoff; and
modifying a transmission parameter for the mobile station in response to detecting the mobile station entering or leaving soft handoff;

wherein the transmission parameter comprises a frame size, wherein if the mobile station is detected entering soft handoff, the frame size is set to a first size and wherein if the mobile station is detected leaving soft handoff, the frame size is set to a second size.

19. (Canceled)

20. (Previously Presented) A method as recited in claim 18, wherein the first size is greater than the second size.

21. (Previously Presented) A method implemented in a wireless communication system, comprising:

detecting a mobile station entering or leaving soft handoff; and
modifying a transmission parameter for the mobile station in response to detecting the mobile station entering or leaving soft handoff, wherein the transmission parameter comprises a frame size, wherein if the mobile station is detected entering soft handoff, the frame size is set to a first size and wherein if the mobile station is detected leaving soft handoff, the frame size is set

to a second size, wherein the first size is greater than the first size, and wherein the first size is 10 ms and the second size is 2 ms.

22. (Original) A method as recited in claim 18, further comprising the mobile station measuring a pilot signal strength for each of one or more base stations and periodically transmitting one or more pilot strength measurement messages to a network.

23. (Original) A method as recited in claim 22, wherein detecting the mobile station entering or leaving soft handoff comprises identifying a change in a number of base stations in an active set for the mobile station based on the pilot strength measurement messages.

24. (Previously Presented) A method as recited in claim 23, further comprising sending a handoff direction message (HDM) from the network to the mobile station in response to detecting the change in the number of base stations in the active set.

25. (Original) A method as recited in claim 24, wherein modifying the transmission parameter for the mobile station is performed in response to receiving the HDM from the network.

26. (Original) A method as recited in claim 25, further comprising transmitting a handoff completion message from the mobile station to the network after receiving the HDM.

27. (Previously Presented) A method implemented in a mobile station, comprising:
detecting that the mobile station is entering or leaving soft handoff;
if the mobile station is entering soft handoff, setting a transmission parameter to a first value; and
if the mobile station is leaving soft handoff, setting the transmission parameter to a second value;
wherein the transmission parameter comprises frame size.

28. (Previously Presented) A method as recited in claim 27, wherein detecting that the mobile station is entering or leaving soft handoff comprises receiving a handoff direction message (HDM) from a network.

29. (Original) A method as recited in claim 27, further comprising measuring a pilot signal strength for each of one or more base stations and periodically transmitting one or more pilot strength measurement messages to a first one of the base stations.

30. (Previously Presented) A method as recited in claim 28, further comprising transmitting a handoff completion message to the network after receiving the HDM.

31. (Canceled)

32. (Original) A method as recited in claim 27, wherein the first value is greater than the second value.

33. (Previously Presented) A method implemented in a mobile station, comprising:
detecting that the mobile station is entering or leaving soft handoff;
if the mobile station is entering soft handoff, setting a transmission parameter to a first value; and
if the mobile station is leaving soft handoff, setting the transmission parameter to a second value, wherein the transmission parameter comprises a frame size, wherein the first value is greater than the second value, and wherein the first value is 10 ms and the second value is 2 ms.

34. (Previously Presented) An apparatus for wireless communication, comprising:
means for detecting that a mobile station is entering or leaving soft handoff;
means for setting a transmission parameter to a first value if the mobile station is entering soft handoff; and
means for setting the transmission parameter to a second value if the mobile station is leaving soft handoff, the transmission parameter comprising a frame size.

35. (Previously Presented) The apparatus of claim 34, wherein the means for detecting that the mobile station is entering or leaving soft handoff comprises means for receiving a handoff direction message (HDM) from a network.

36. (Previously Presented) The apparatus of claim 35, further comprising means for sending a handoff completion message to the network after receiving the HDM.

37. (Previously Presented) The apparatus of claim 34, further comprising:
means for measuring a pilot signal strength for each of one or more base stations; and
means for periodically transmitting one or more pilot strength measurement messages to a first one of the base stations.

38. (Previously Presented) The apparatus of claim 34, wherein the first value is greater than the second value.

39. (Currently Amended) ~~The apparatus of claim 34~~ An apparatus for wireless communication, comprising:
means for detecting that a mobile station is entering or leaving soft handoff;
means for setting a transmission parameter to a first value if the mobile station is entering soft handoff; and
means for setting the transmission parameter to a second value if the mobile station is leaving soft handoff, the transmission parameter comprising a frame size,
wherein the first value is 10 ms than the second value is 2 ms.

40. (Previously Presented) The apparatus of claim 34, further comprising:
means for transmitting data on reverse link in accordance with the frame size.

41. (Previously Presented) A processor-readable medium including instructions stored thereon, comprising:

instructions for detecting that a mobile station is entering or leaving soft handoff;
instructions for setting a transmission parameter to a first value if the mobile station is entering soft handoff; and

instructions for setting the transmission parameter to a second value if the mobile station is leaving soft handoff, the transmission parameter comprising a frame size.

42. (Previously Presented) The processor-readable medium of claim 41, further comprising:

instructions for receiving a handoff direction message (HDM) from a network.

43. (Previously Presented) The processor-readable medium of claim 42, further comprising:

instructions for sending a handoff completion message to the network after receiving the HDM.

44. (Previously Presented) The processor-readable medium of claim 41, further comprising:

instructions for obtaining a pilot signal strength for each of one or more base stations; and
instructions for periodically sending one or more pilot strength measurement messages to a first one of the base stations.

45. (Previously Presented) The processor-readable medium of claim 41, wherein the first value is greater than the second value.

46. (Previously Presented) The processor-readable medium of claim 41, further comprising:

instructions for directing transmission of data on reverse link in accordance with the frame size.